

cc. Mike Forrest
2-20-03
2-25-03

**BACON AND WEBB TRACT ISLAND LEVEE CONSTRUCTION
DWR FEASIBILITY STUDY
IMPORT MATERIAL SURVEYS**

Project Location: Bacon and Webb Tract Island, Sacramento – San Joaquin River Delta, California
Estimated Construction Duration : 5 years

Person Quoting/Title: Scott Thomas, Sales Rep. **Company** Syar Madison
Address: 2301 Napa - Vallejo Highway, Napa, CA 94558 **Distance from the Site :** 45~50 Miles
Phone: 707-259-5839 **Fax:** 707-259-3018
Ability to produce the Specified Quantities (yes/no) : NO **Lead Time Required:** 3 months.
Approximate Production Rate per Day: see notes below Ton **Plant will be operated in the next 10 years (yes/no)** yes.
Recorded by: George Chiu **Date:** 2-20-03

Notes:

- 1) All unit cost quotation shall include approximate County tax.
- 2) All riprap materials shall conform to CALTRANS Standard Specifications Section 72 and gradation as specified in the attached tables, and shall be durable, dense, sound, angular, free from cracks, seams, and other natural causes and free from foreign matter.
- 3) All sand filter materials shall conform to CALTRANS Standard Specifications Section 72 and gradation as specified in the attached tables, and ASTM C33 and shall consist of sound, durable processed sands free from organic matter, clay balls, soft particles and other foreign matter.
- 4) Please indicate if the supplied material is from river-run, rock quarry, or process from alluvium, etc.

Notes for Production Rate:

1. Sand Filter – 20,000 Ton / year
2. Bedding – 50,000 Ton / year
3. Rip rap – 20,000 ~ 30,000 Ton / year
4. Rock fill – 30,000 ~ 40,000 Ton / year

5. production rates ~~depending~~ are specific for this project. Potential to do more depending on backlog.
6. He did not know average production rate for their plants.

MATERIAL PRODUCT SHEET (Rock Berm Option)

Item	Materials	Material required for Duration	Estimated Quantities (CY)	Source of Materials (note 4)	Cost per Ton @ Plant	Cost per Ton deliver to Site	Remarks/ Assumptions
1	Sand Filter	Year 1 to 3	2,400,000	River Run from this Madison plant	\$ 10	/	
2	Bedding	Year 3 to 5	336,000	Lake Herman Rock Quarry	\$ 13		
3	Riprap, Large	Year 3 to 5	780,000	↓	\$ 20 *		
4	Riprap, Small	Year 3 to 5	32,000		\$ 20 *		
5	Rockfill	Year 1 to 3	700,000		\$ 20 *		

SAND FILTER

Particle Size	Percent Passing
1.5-inch	100
#4 sieve	60 - 75
#200 sieve	3

BEDDING

Particle Size	Percent Passing
3-inch	100
1-inch	70 - 85
#4 sieve	40 - 60
#200 sieve	5

ROCKFILL (Caltrans 1/4 Ton)

Rock Mass	Percent Larger Than
450 kg (1/2 Ton)	0-5
220 kg (1/4 Ton)	50 - 100
34 kg (75 Lbs)	95 - 100

RIPRAP Large

Particle Weight (lbs)	Percent Passing
1,500	100
250	40 - 60
5	15 - 25
1	0 - 5

RIPRAP Small

Particle Weight (lbs)	Percent Passing
750	100
125	40 - 60
5	15 - 25
1	0 - 5

* They will look into the cost more closely if it is a real bid. Stand material may cost \$2 ~ \$3 less a ton.

No Trucking/hauling cost included.

MATERIAL PRODUCT SHEET (Bench Option)

Same as Rock Bench Option.

Item	Materials	Material required for Duration	Estimated Quantities (CY)	Source of Materials (note 4)	Cost per Ton @ Plant	Cost per Ton deliver to Site	Remarks/ Assumptions
1	Sand Filter	Year 1 to 3	3,070,000				
2	Bedding	Year 3 to 5	435,000				
3	Riprap, Large	Year 3 to 5	780,000				
4	Riprap, Small	Year 3 to 5	230,000				

SAND FILTER

Particle Size	Percent Passing
1.5-inch	100
#4 sieve	60 – 75
#200 sieve	3

BEDDING

Particle Size	Percent Passing
3-inch	100
1-inch	70 – 85
#4 sieve	40 – 60
#200 sieve	5

ROCKFILL (Caltrans ¼ Ton)

Rock Mass	Percent Larger Than
450 kg (1/2 Ton)	0-5
220 kg (1/4 Ton)	50 – 100
34 kg (75 Lbs)	95 – 100

RIPRAP Large

Particle Weight (lbs)	Percent Passing
1,500	100
250	40 – 60
5	15 – 25
1	0 – 5

RIPRAP Small

Particle Weight (lbs)	Percent Passing
750	100
125	40 – 60
5	15 – 25
1	0 – 5